

FIG. 1

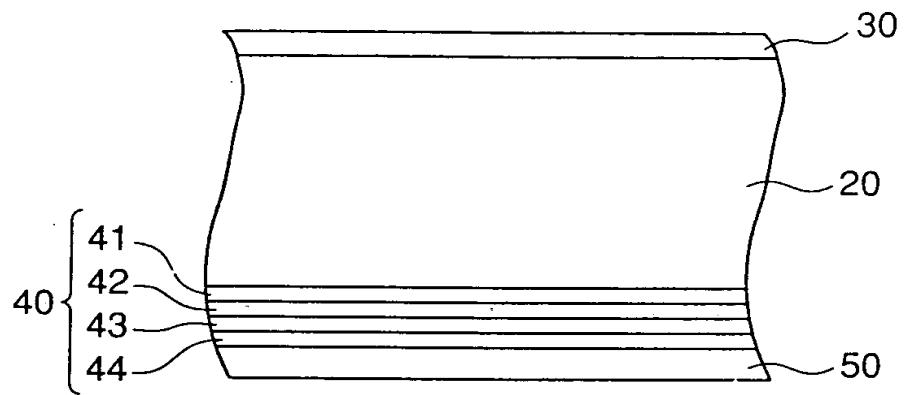


FIG. 2 (a)

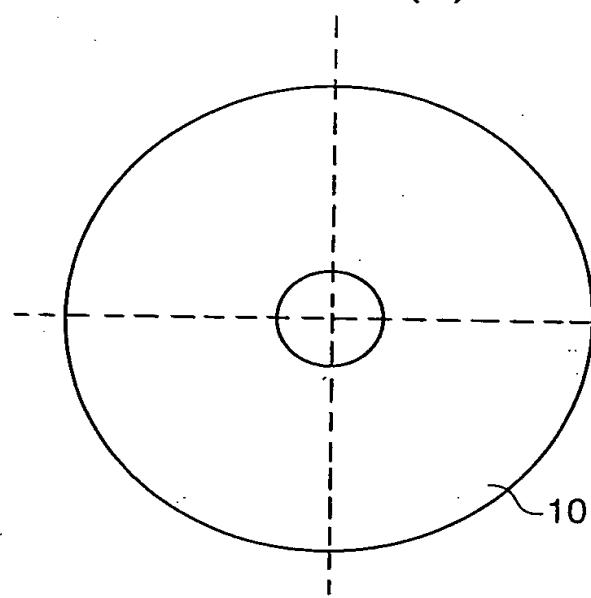
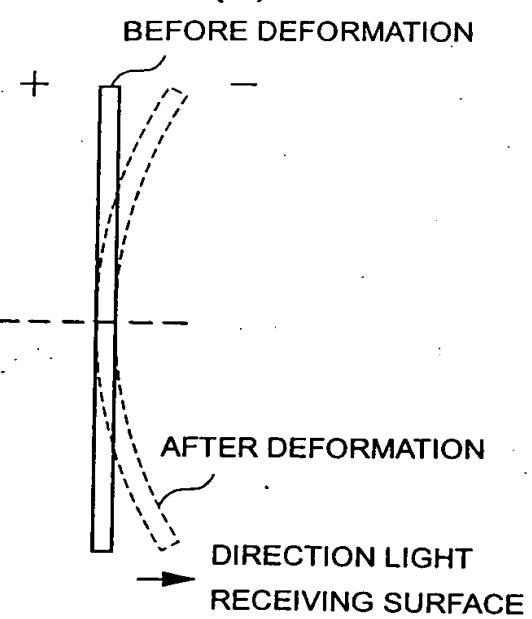


FIG. 2 (b)



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FIG. 3

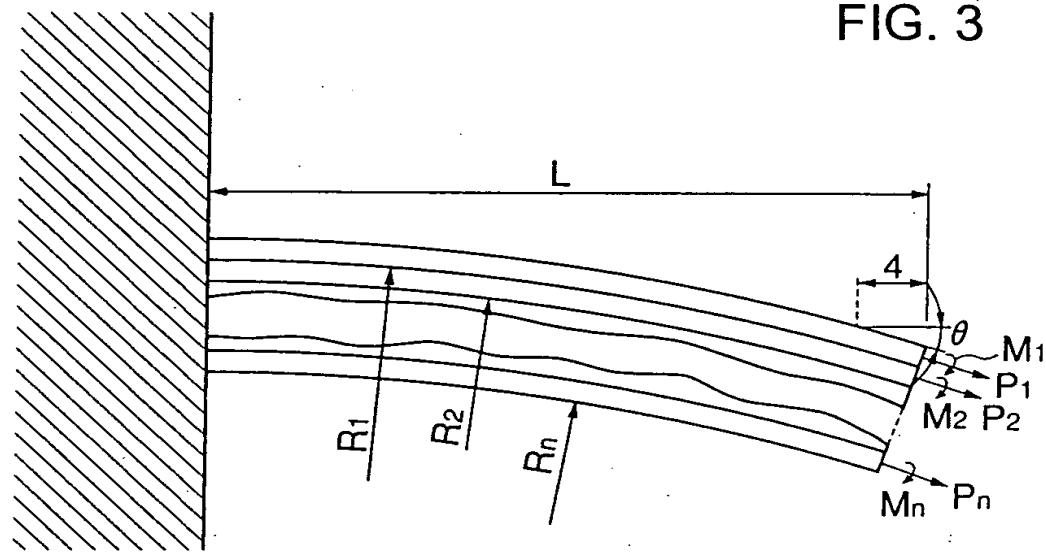
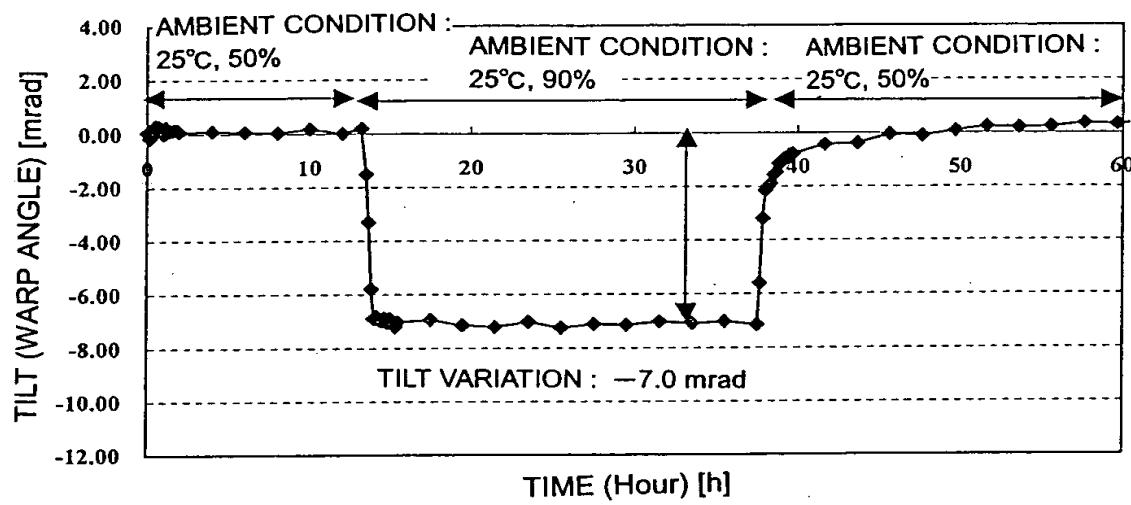


FIG. 4 PRIOR ART



**FIG. 5**

**EXAMPLE 1**

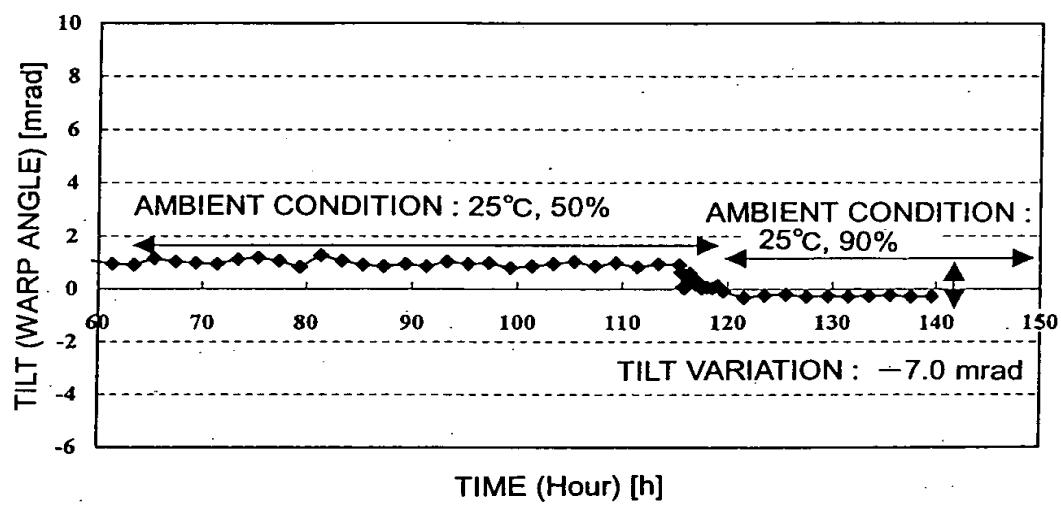
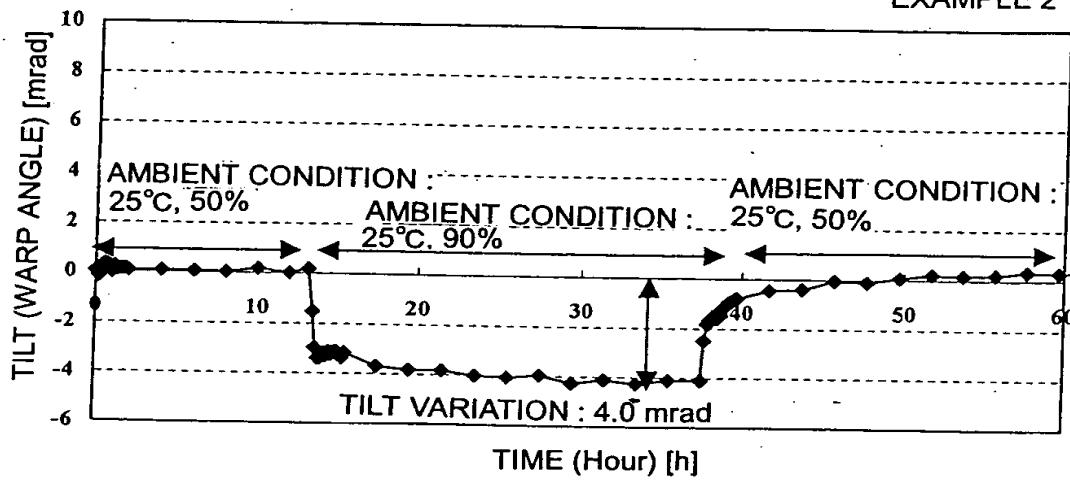


FIG. 6

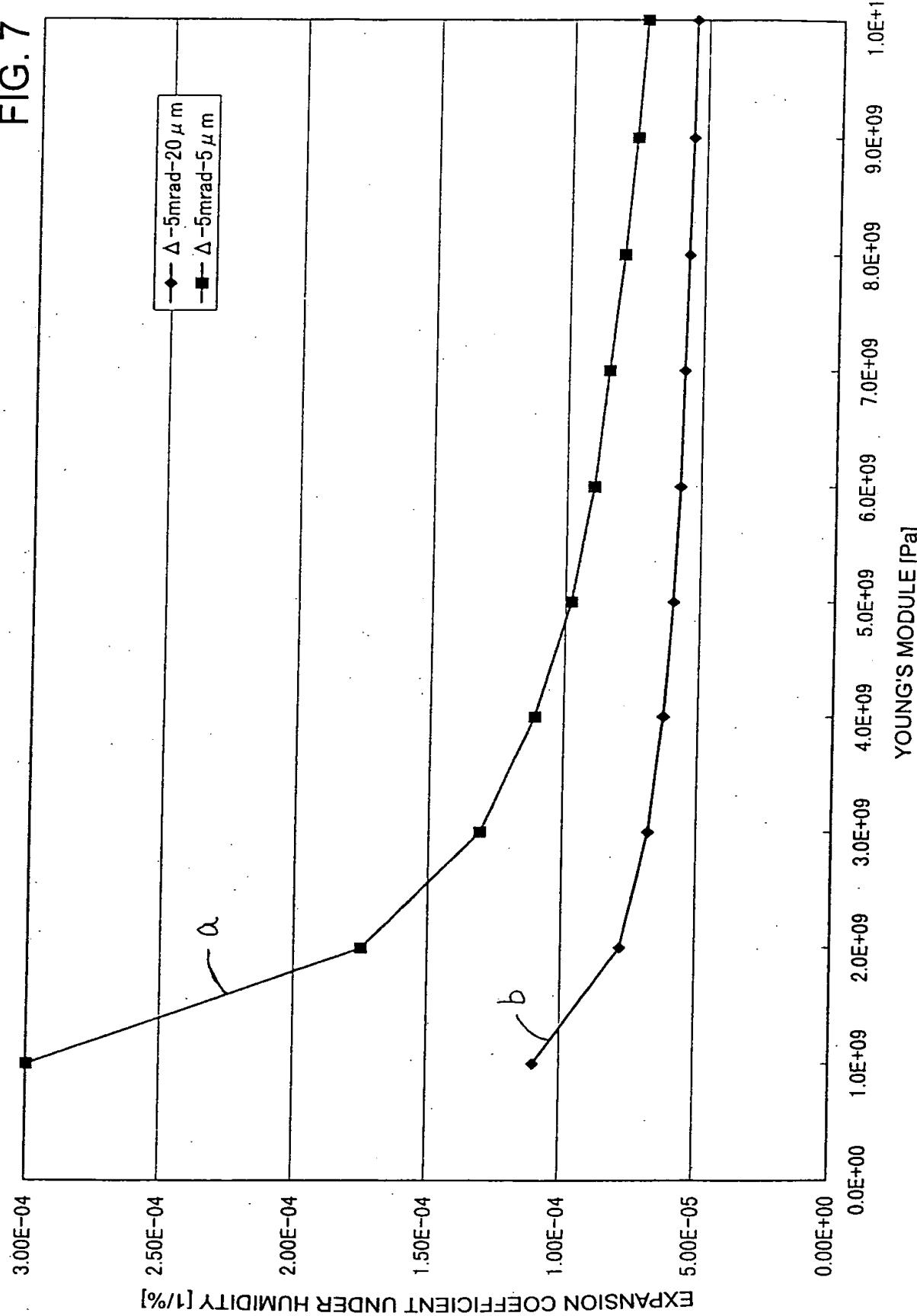
EXAMPLE 2



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1000 900 800 700 600 500 400

FIG. 7



## FIG. 8 (a) PRIOR ART

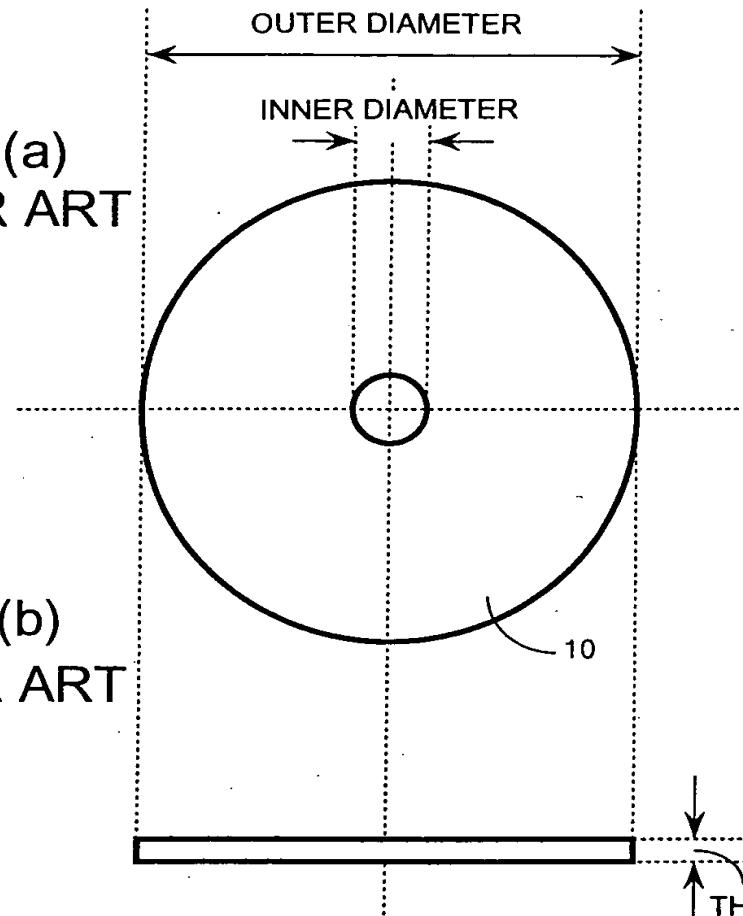
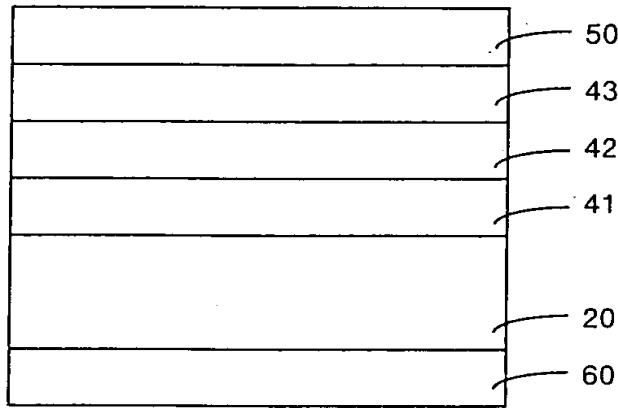


FIG. 8 (b)  
PRIOR ART

**FIG. 9 PRIOR ART**



**FIG. 10 PRIOR ART**

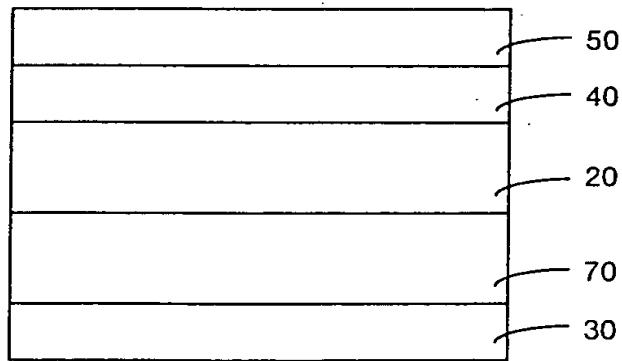


FIG. 11

EXAMPLE 1	MATERIAL	THICKNESS	YOUNG'S MODULUS (Pa)	EXPANSION COEFFICIENT UNDER HUMIDITY (1%)
TRANSPARENT SUBSTRATE 20	POLYCARBONATE	0.5mm	2.41E+09	7.00E-06
THIN FILM LAYER 40	ALUMINUM NITRIDE	65nm	3.43E+11	0.00E+00
PROTECTIVE FILM 50	UV CURING RESIN 1	16μm	5.40E+09	1.60E-05

FIG. 12 PRIOR ART

COMPARATIVE EXAMPLE 1	MATERIAL	THICKNESS	YOUNG'S MODULUS (Pa)	EXPANSION COEFFICIENT UNDER HUMIDITY (1%)
TRANSPARENT SUBSTRATE 20	POLYCARBONATE	0.5mm	2.41E+09	7.00E-06
THIN FILM LAYER 40	ALUMINUM NITRIDE	65nm	3.43E+11	0.00E+00
PROTECTIVE FILM 50	UV CURING RESIN 2	16μm	5.40E+09	6.25E-05

**FIG. 13**

EXAMPLE 2

	MATERIAL	THICKNESS	YOUNG'S MODULUS (Pa)	EXPANSION COEFFICIENT UNDER HUMIDITY (1%)
TRANSPARENT SUBSTRATE 20	POLYCARBONATE	0.5mm	2.41E+09	7.00E-06
THIN FILM LAYER 40	ALUMINUM NITRIDE	65nm	3.43E+11	0.00E+00
PROTECTIVE FILM 50	UV CURING RESIN 3	16µm	9.00E+09	6.25E-05

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